

HAPPY ST. PATRICK'S DAY!

FROM THE PREZ

Our February meeting really got a lot of things going. Besides being well attended and lively, we welcomed back a former member and had an interesting program. It was good to see such interest in C.A.R.S. and the activities we are pursuing.

Gary, NI8Z; Metro, W8MET; and Tom, WB8N, planned to head down to the Copley Middle School and help the young amateurs participate in the School Club Roundup. A subsequent report from Gary told of a successful event. The kids really enjoyed themselves in the contest itself and the greater endeavor of C.A.R.S. to promote amateur radio to a young segment of society. Thanks guys. One other item concerning the CMS radio club is the need for some able bodied assistance to complete an antenna project. Please, if anyone can help, contact Dave, KD8V, or Bill, WU8A. The school club is one of the most important activities C.A.R.S. sponsors because it promotes a healthy future for ham radio.

Gary also presented a program on Lighthouses. His hope was to get C.A.R.S. involved once again in the amateur radio lighthouse events and contests. Some of us participated in these events a few years back. The video Gary showed depicted the lighthouse experience perfectly. The idea of "activating a light" is to set up a portable HF station at a lighthouse and work others at lighthouses or their home stations. We are fortunate to be near many lighthouses on the shores of Lake Erie, it is not a major journey to get to a lighthouse. Speaking from past

experience, it is one of the most enjoyable ways to operate ham radio. It's almost impossible to beat the fun of sitting near the waves, watching the boats and swimmers, feeling the lake breeze on your face with a mike in one hand and a cool drink in the other. It is ham radio nirvana. Let us know if you are interested, you will never regret or forget it.

Also, a committee was formed to establish a policy for the club repeater especially concerning Echolink use. Echolink has some exciting uses that can enhance the coverage and distance of a standard 2 meter repeater. Recently we have had some mixed opinions on the proper use of Echolink on our repeater. Being a club with a defined purpose, it is imperative we agree on how our equipment is to be used, and how our repeater's transmissions are perceived to those on frequency. To solve this dilemma, a group of enthusiastic members volunteered to unite behind the leadership of Tom, WB8N; the repeater trustee. *continued on next page....*

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The point came up from a concerned member that we were not amending our club constitution in the proper manner. After a passionate discussion, I ended the fray volunteering to investigate the proper procedure. The task is underway, but I can say that at this point, we need to review our constitution and by-laws and if necessary, and put our ducks in a row. This will probably involve some time and effort of several members to put us on a straight course, but it definitely needs to be done and certainly will be worth the effort. I will welcome any interested members to contribute to this endeavor. Please contact me if you are interested, you all know where I can be found.

73, Toby, WT8O

FEBRUARY MEETING MINUTES

The C.A.R.S. Membership Meeting was called to order by President Toby Kolman, WT8O, on the 14th of the month at 7:30 P.M. The meeting was held at the Busch Funeral Home Community Room in Parma, Ohio. 29 Members and 1 guest were in attendance. After introductions, the January minutes were approved as published in the February *Wobbly Oscillator*.

The treasurers report was given by Bob Check, W8GC, who reminded all, that if your dues weren't paid by today's meeting of February 14th, you're not a member in good standing. A phone campaign of the people that haven't paid their dues has been made. Licensing classes will be starting the week of February 20th. Tickets for the Tina Check, W8HBI, Scholarship Fund went on sale at the February 14th meeting; two tickets for \$5.00 or a book of 8 tickets for \$20.00 dollars. The winner will be announced at the C.A.R.S. Family Picnic in July.

Toby reminded everyone to leave the Handicapped spaces close to the building for members that need them.

Toby announced the evening presentation being put on by Gary, NI8Z, on lighthouses around the country. Toby mentioned that C.A.R.S. had been a member of the Amateur Radio Lighthouse Society and will rejoin. C.A.R.S. wants to participate this year in lighthouse week which is sometime in August.

Vice President Gary, NI8Z, announced that a VE license testing session will take place on the 2nd Sunday of March.

Sunshine Report; Get well cards were sent out to Toby, WT8O, who had knee surgery and is going through painful rehab. A card was also sent to Mike, KG8MTG, for his son who is in the hospital in a coma, and to Skip Cook, KC8WBF, who was in the hospital and is recuperating at home.

Secretary Dwaine, K8ME, announced about the 2012 Dayton Hamvention bus, sponsored by C.A.R.S. The price has gone up because of the gas costs, to \$45.00 one day, round trip which is still the best deal in town, considering you don't have to do the driving, pay for gas down and back, or pay for parking. The bus parks next to the Arena and is open all day, so if you're buying items, you can drop them off at the bus. You can even take a nap in the bus if you are tired. The driver stays in the bus, but you can make special arrangements when you will come back during the day and the driver will be there. If you've never been to the Dayton Hamvention, it's a life long experience, you will never forget.

Update by Gary, NI8Z, on the Copley Middle School Radio Club; they need some antenna work done, and they were going to participate in the School Club Roundup sponsored by the ARRL, that went on from Feb. 13th thru the 17th on the HF bands. Gary mentioned that Dave Dressler, KD8V, has been under the weather and hasn't been able to be at Copley Middle School. Bill Sarver, WU8A mentioned that Dave has doctor orders not to climb or no heavy lifting, the club will work around that. Gary will be going down with Tom, WB8N, and Metro, W8MET, and get the kids on the air for the roundup. *(Look for a report on that elsewhere in this issue. - Ed)*

Toby, WT8O, thanked and recognized the refreshment committee, Ron, K8VJG; ED, WB8ROK; and Darren, K8MDT, for bringing beverages and eats to keep us full and awake during the meeting.

NEW BUSINESS: The club guest Jim Toth, KC8TXZ, is an ex-member. He rejoined C.A.R.S. and the membership voted Jim back in to the Club. **WELCOME BACK Jim Toth, KC8TXZ.**

C.A.R.S. is formulating a Echo-link Repeater Committee to develop an Echo-link Policy.
continued on next page....

Members on the committee are, WB8N, K8ARP, K8VJG, KD8FTS, WT8O, KD8OUE, and KD8QBB. Hopefully we will hear something at the March meeting.

The Amendment to the Constitution was proposed by Treasurer Bob Check, W8GC to read; ARTICLE III; OFFICERS

SECTION 4; DUTIES OF OFFICERS

(D) The Treasurer shall receive all monies paid to CARS, make a record of same and pay all bills at the order of the Board or President do a monthly check book reconciliation; collect all monies and present application for membership; send late dues notices; act as statutory agent for CARS; present the records for the yearly audit; file financial forms with state of Ohio & IRS yearly; Collect ARRL Renewal, process renewals to ARRL for kick-back program; keep inventory updated and send changes to our insurance company each year; write an article for the WO when needed; Collect money and process orders for shirts, hats, jackets etc., when orders come in, hand them out and collect monies due; keep a record of all cash, Equipment and other tangible property donated to CARS; report on the checkbook balance and other relevant issues at each Regular Meeting; Two signatures shall be required on any checks issued. One must be the Treasurer along with either the President or one other member of C.A.R.S who is authorized by the Board of Directors as a signer.

Amend to read: One signature is required on any check issued. The signer can be anyone of three, WT8O, reminded everyone about the authorized signers.

Toby reminded everyone that Gary, NI8Z, would be making his lighthouse presentation after the meeting.

Metro, W8MET, reminded the club there were free items up front on the table of various books, coax cable, etc. for the taking. Meeting adjourned at 8:19 P.M.

After the meeting, the 50/50 raffle was won the 50/50 raffle winner was Ron, K8VJG, his portion being \$32.00 and C.A.R.S. share was \$33.00 added to the treasury. Second prize was a large map won by Mike, KD8OUE.

Respectfully submitted by Dwaine Modock, K8ME, C.A.R.S. secretary.

SCHOOL CLUB ROUNDUP REPORT

By Tom Wayne, WB8N

On Thursday, February 16th & Friday, February 17th, Gary Dewey, NI8Z, Metro Sinko, W8MET, and I traveled to the Copley-Fairlawn Middle School in Copley, Ohio to activate WA8CMS, the callsign for the radio club that C.A.R.S. sponsors there, and get the students in the club on the air on HF for the ARRL School Club Roundup. We got down there on Thursday around 3:00 p.m. to be met by Dave Dressler, KD8V, the mentor to the students in the club.

Gary fired up the Yaesu FT-990, and began to call CQ on 20 meters, on one of the suggested frequencies for the roundup. Dave brought in one student at a time and Gary led them through making on contact for the roundup. The kids made several contacts in spite of a vertical antenna that leaves a lot to be desired. We went back again on Friday and were met with the news that Dave was in the hospital. Brad Bennett, W8WEN, who is a member of the school club as well as C.A.R.S. and is a councilor at the school, was there to keep the kids in line while they waited their turn at the microphone, and we began once again, getting the kids on the air. A mother of one of the students brought in pizza and soft drinks which we all welcomed.

Many of the students in the club are licensed, with several General class licensees, and one Extra. Most of them are Technician class however, with several working on getting their first license. They are anxious to learn about Amateur Radio and are enthusiastic about getting on the air. The second day, Metro kept some of the students occupied by practicing CW, while I looked up stations they contacted on QRZ.com so that they could see who and where they had been talking with. Contacts were made with individual operators as well as other school stations.

Here are the statistics as compiled by NI8Z;

SCHOOL CLUB ROUNDUP DISPATCH

Operating Hours: 6

Voice Contacts: 20

Digital Contacts: 0

Current Score: 700

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Operating Hours: 6

Voice Contacts: 20

Digital Contacts: 0

Current Score: 700

15 States Contacted:

ARKANSAS, CONNECTICUT, FLORIDA,
ILLINOIS, INDIANA, KANSAS, MAINE,
MASSACHUSETTS, MINNESOTA,
MISSISSIPPI, OHIO, OKLAHOMA,
TENNESSEE, TEXAS, VERMONT

4 School Clubs Contacted:

K1BBS KC5NXD KF5CRF W9GRS

Number of operators = 15

Number of hours = 6

This was the first time the Copley-Fairlawn Middle School Radio Club used HF for anything except for training for the license classes. We had over 20 students involved in the SCR for their first time. The Cuyahoga Amateur Radio Society helped set up and sponsors the station. We expect to do better in the next School Club Round Up which takes place in October. Dr. Dave Dressler, KD8V, is the club leader and mentor to the students. (The kids respectfully call him Dr. Dressler. He is a retired dentist.) Commendations to Dave and his wife Pat, KD8DYI, for their dedication to the students and to the school radio club. Below are pics of student operators with NI8Z.



MEMOS FROM THE SECRETARY

A final reminder to the few who have not paid your 2012 due's, anyone not paid by March 15, 2012 will be removed from both the membership & email lists. As of February 1, 2012 anyone who's due's were not paid were no longer members in good standing so not eligible to vote.

Dayton is fast approaching and ticket sales are brisk. Get your tickets ASAP, it looks like we may have a full bus this year. Go to www.2cars.org to buy your tickets.

Tickets are now available for our 2012 Tina Check W8HBI Scholarship Fund raffle, you can go to www.2cars.org to buy your tickets, call/email W8GC or buy them at a meeting. The Officers will also have tickets to sell. A way to support a good cause plus a chance to win a \$300.00, \$200.00 or \$100.00 prize. Donation is the same as last year \$3.00 per ticket or \$5.00 for two.

Our Spring license classes have started with students in the Extra, General and Tech classes.

73, Bob, W8GC

THE REST OF THE TRIVIA

By Steve Spisak, K8SAS

This is followup on my trivia question from the February 8th C.A.R.S. net, "In what year was the first known battery invented?"

Alessandro Volta, was the man responsible for inventing an early form of the battery that we rely on today.

He was born in Como, Lombardy, Italy, on February 18, 1745. His parents sent him to a Jesuit school with the intention that he would become a jurist, but he chose the sciences instead. In 1774, Volta became professor of physics at the Royal School in Como. His passion had always been the study of electricity, and in 1775 he devised the electrophorus, a device that produced charges of static electricity. The device soon superseded the Leyden Jar as the most commonly used method of storing electricity. The electrophorus consisted of a metal plate coated with a substance called ebonite, and a second metal plate with an insulated handle. Holding the metal plate by the insulated handle above the charged ebonite, Volta found that the negative charge in the ebonite attracted a positive charge in the lower surface of the plate, leaving a negative charge in its upper surface. Volta also found that this negative charge could be drained away by means of a metal wire connecting the upper surface of the plate to the earth, leaving an overall positive charge on the plate. By repeating the process, he built up large quantities of positive charge. Today the electrophorus is the basis of the condenser, the device used for storing electricity in electric currents.

The Voltaic Pile with which Volta is most commonly associated was developed by him in 1800. Volta eventually determined that the most effective pair of dissimilar metals to produce electricity was copper and zinc. This led to the first working battery, which used several bowls of a salt solution connected by a wire cord that dipped from one bowl into the next. One end of the cord was copper and the other zinc and when they made contact, a current was produced.

In honor of his work in the field of electricity, Napoleon Bonaparte made him a Count in 1810. He died in 1827.

I would like to thank The Robinson Library for the use of this article. I would recommend their great site for any reference or reading you might need. They can be found at; <http://www.robinsonlibrary.com/index.htm>

THE RANDOM WIRE

By Tom Wayne, WB8N

IS SPRING HERE YET?

In a few weeks it WILL be Spring, which means we can begin working on putting up new antennas or fixing those that broke or came down over the winter. It also means some of us are going to see about putting up better antenna at the Copley-Fairlawn Middle School radio station. We realized during the School Club Roundup at the school last month that the vertical antenna that is up on the roof of the school presently is not a very good one and that we need to run a better feedline as well. Hopefully we can get that done before too long. Gary, N18Z is working on the situation.

REFLECTIONS ON THE SCHOOL CLUB ROUNDUP

I really had a great time with the students in the Copley-Fairlawn Middle School radio club. The kids seemed to really get into operating HF even though they only made one contact each since there were so many of them on both Thursday and Friday of the contest that we operated. I only wish that we could have contacted more school stations than we did but I think that was partly due to the fact that we were operating after regular school hours, from 3 to 6 p.m. I had noticed that many school stations were operating during regular school hours when I listened from my home station, and I made contact with several of them myself during school hours. But the kids had fun and that's what it was all about, besides learning proper operating procedures. We made them use proper phonetics as well, when calling CQ, contacting another station and spelling their own names on the air.

It took each student operator awhile to make even one contact per operator, as they were calling CQ in the frequency range suggested by the ARRL and there didn't seem to be many stations
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on the air in the suggested ranges at the time we were operating.

I'm looking forward to doing it again in October when we have a better antenna system up and maybe even an amplifier, if NI8Z has his way.

LAST MAN STANDING

I don't know how many of you have watched Tim Allen's new comedy show, Last Man Standing, but I have made an effort to catch every episode ever since I learned that his character, Mike Baxter is a Ham Radio operator. The show itself is funny, the premise being that Mike lives in a home with his wife and three daughters, hence Last Man Standing. So far he has not operated on the show, but in every show, we can see Mike's office wall where he works as the marketing manager for a sporting & outdoors store, which has all kinds of awards posted, and you can also see in the background, an HF rig, which is turned on. On his desk is also an ARRL Operating Manual. If you haven't yet watched the show, give it a try. It is on at 8:00 p.m. Tuesday evenings. I know, that's the same time as NCIS is on but you can record it, or even catch it on ABC's web page after the day that it aired.

OUT OF HERE

FOR NOW

That's about it for this month guys and gals. Hope to see you at the March meeting, same time, same place, or maybe even on the air. Don't forget to check into the C.A.R.S. Wednesday evening net at 9:00 p.m. local time. Who knows, you might even get the answer to the weekly trivia question correct!

73, de Tom,

WB8N

is a pic of the students and two of the instructors.



HISTORY OF THE CAR RADIO

Author unknown, submitted by

Tom Wayne, WB8N

This is the very interesting story of the men who came up with the idea for car radios. Seems like cars have always had radios, but they didn't -- Here's the true story: One evening in 1929 two young men named William Lear and Elmer Wavering drove their girlfriends to a lookout point high above the Mississippi River town near the town of Quincy Illinois to watch the sunset. It was a romantic night to be sure, but one of the women observed that it would be even nicer if they could listen to music in the car. Lear and Wavering liked the idea. Both men had tinkered with radios -- Lear had served as a radio operator in the U.S. Navy during World War I -- and it wasn't long before they were taking apart a home radio and trying to get it to work in a car. But it wasn't as easy as it sounds: automobiles have *continued on next page...*

C.A.R.S. LICENSE CLASSES BEGIN

The 2012 C.A.R.S. license classes have begun, starting on Wednesday, February 22nd. Instructors Gary Dewey, NI8Z, Metro Sinko, W8MET, and David Noeth, KD8ACO, registered the students and got them started with the material for their studies. There are students in each license class of Technician, General, and Extra. Good luck to the students.

Below

and other electrical equipment ignition switches, generators, spark plugs, plugs, that generate noisy static interference, making it nearly impossible to listen to the radio when the engine was running.

SIGNING ON

One by one, Lear and Wavering identified and eliminated each source of electrical interference. When they finally got their radio to work, they took it to a radio convention in Chicago . There they met Paul Galvin, owner of Galvin Manufacturing Corporation. He made a product called a "battery eliminator" a device that allowed battery-powered radios to run on household AC current. But as more homes were wired for electricity, more radio manufacturers made AC-powered radios. Galvin needed a new product to manufacture. When he met Lear and Wavering at the radio convention, he found it. He believed that mass-produced, affordable car radios had the potential to become a huge business.

Lear and Wavering set up shop in Galvin's factory, and when they perfected their first radio, they installed it in his Studebaker. Then Galvin went to a local banker to apply for a loan. Thinking it might sweeten the deal, he had his men install a radio in the banker's Packard. Good idea, but it didn't work -- Half an hour after the installation, the banker's Packard caught on fire. (They didn't get the loan.) Galvin didn't give up. He drove his Studebaker nearly 800 miles to Atlantic City to show off the radio at the 1930 Radio Manufacturers Association convention. Too broke to afford a booth, he parked the car outside the convention hall and cranked up the radio so that passing conventioners could hear it. That idea worked -- He got enough orders to put the radio into production.

WHAT'S IN A NAME

That first production model was called

the 5T71. Galvin decided he needed to come up with something a little catchier. In those days many companies in the phonograph and radio businesses used the suffix "ola" for their names -- Radiola, Columbiola, and Victrola were three of the biggest. Galvin decided to do the same thing, and since his radio was intended for use in a motor vehicle, he decided to call it the Motorola. But even with the name change, the radio still had problems: When Motorola went on sale in 1930, it cost about \$110 uninstalled, at a time when you could buy a brand-new car for \$650, and the country was sliding into the Great Depression. (By that measure, a radio for a new car would cost about \$3,000 today.) In 1930 it took two men several days to put in a car radio -- The dashboard had to be taken apart so that the receiver and a single speaker could be installed, and the ceiling had to be cut open to install the antenna. These early radios ran on their own batteries, not on the car battery, so holes had to be cut into the floorboard to accommodate them. The installation manual had eight complete diagrams and 28 pages of instructions.

HIT THE ROAD

Selling complicated car radios that cost 20 percent of the price of a brand-new car wouldn't have been easy in the best of times, let alone during the Great Depression --

Galvin lost money in 1930 and struggled for a couple of years after that. But things picked up in 1933 when Ford began offering Motorola's pre-installed at the factory. In 1934 they got another boost when Galvin struck a deal with B.F. Goodrich tire company to sell and install them in its chain of tire stores.

By then the price of the radio, installation included, had dropped to
continued on next page...

\$55. The Motorola car radio was off and running. (The name of the company would be officially changed from Galvin Manufacturing to "Motorola" in 1947.) In the meantime, Galvin continued to develop new uses for car radios. In 1936, the same year that it introduced push-button tuning, it also introduced the Motorola Police Cruiser, a standard car radio that was factory preset to a single frequency to pick up police broadcasts. A lot of the communications technologies that we take for granted today were born in Motorola labs in the years that followed World War II. In 1947 they came out with the first television to sell under \$200. In 1956 the company introduced the world's first pager; in 1969 it supplied the radio and television equipment that was used to televise Neil Armstrong's first steps on the Moon. In 1973 it invented the

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world's first handheld cellular phone. Today Motorola is one of the largest cell phone manufacturer in the world -- And it all started with the car radio.

WHATEVER HAPPENED TO

The two men who installed the first radio in Paul Galvin's car, Elmer Wavering and William Lear, ended up taking very different paths in life. Wavering stayed with Motorola. In the 1950's he helped change the automobile experience again when he developed the first automotive alternator, replacing inefficient and unreliable generators. The invention lead to such luxuries as power windows, power seats, and, eventually, air-conditioning.

Lear also continued inventing. He holds more than 150 patents. Remember eight-track tape players? Lear invented that. But what he's really famous for are his contributions to the field of aviation. He invented radio direction finders for planes, aided in the invention of the autopilot, designed the first fully automatic aircraft landing

system, and in 1963 introduced his most famous invention of all, the Lear Jet, the world's first mass-produced, affordable business jet. (Not bad for a guy who dropped out of school after the eighth grade.)

KEN'S JUNK BOX

By Ken Osicki, K8OAE

Why Didn't Anyone Tell Me....?I must not have been paying attention when this was discussed. For anyone else who missed it here is a very informative ham radio television program to watch. Of course, it can only be seen using your computer and via the internet, not on regular TV or cable, but the programs are professionally done and have a very high interest level.

What am I talking about? Start up your internet browser and in your address bar key in www.twit.tv/show/ham-nation/36. This will bring up a current HAM Nation Show. Scroll down along the right side of your screen and you will see a listing of all past shows with a brief description of each show's content.

HAM Nation is hosted by Bob Heil, K9EID, the owner of Heil Sound. The show focuses on equipment, applications, tips, and general information for the Amateur Radio operator. Scoll down to show number 1 and you will find the first guest to be radio amateur Joe Walsh, WB6ACU, (*member of the James Gang and The Eagles bands,*) who also wrote the music for the show. So, as you an see, these programs are professionally done and should be of interest to all amateurs.

Be sure to enter the program in your FAVORITES list (tip; add it to your FAVORITES BAR) so that you can easily find it the next time you tune in. The program airs live each Tuesday at 9:00 p.m., but all programs are available to watch at any time. So belly up to your favorites bar and spend an enjoyable time with Bob Heil and HAM Nation.

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EXCERPTS FROM THE GEARVAKf (the f is silent) BULLETIN

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Math Teacher Arrested at JFK Airport

A public school teacher was arrested recently at John F. Kennedy International Airport as he attempted to board a flight while in possession of a ruler, a protractor, a set square, a slide rule, and a calculator. At a morning press conference, the attorney general said he believes that the man is a member of the notorious Al-Gebra movement. He did not identify the man, who has been charged by the FBI with carrying weapons of math instruction. "Al-Gebra is a problem for us," the attorney general said. "They desire solutions by means and extremes, and sometimes go off on tangents in search of absolute value. They use secret code names like 'x' and 'y' and refer to themselves as 'unknowns', but we have determined that they belong to a common denominator of the axis of medieval with coordinates in every country. As the

Greek philander Isosceles used to say, 'there are three sides to every triangle.' " When asked to comment on the arrest, the President of the United States said, "If God had wanted us to have better weapons of math instruction, he would have given us more fingers and toes."

Democratic leaders told reporters that they were sure that the President would make the necessary changes.

Reported by an unnamed secret agent

Advanced Physics Funding Approved by Congress

By Harold Kennedy, N4GG

It was all high-fives at Gearvakf Headquarters last month as congressional Republicans and Democrats agreed to fund the Gearvakf-proposed Particle Originating Recalculating Kinetic Bombarding Anti-Relativity Revisionist Electron Project, (Porkbarrel). "The Porkbarrel project is of great importance to maintaining this country's lead in high energy physics, and other worky-things," said bill co-sponsor W. Spring Summer-Fall, (R-Ohio). The Gearvakf steering committee has been at work since receiving the good news, attempting to oversteer modification of the Porkbarrel design. As proposed, it was to have been a circular machine, five miles in diameter, similar to a supercollider. A requirement added late in the law's passage by a House/Senate conference committee, however, calls for the machine to pass through every congressional district in the U.S., a stipulation which has caused some consternation within the design team. One month into the project, the project is one month behind schedule. "We will never get this design off the ground," project engineer, Dr. Miles Wirenut, said in frustration at a recent progress review. "It's supposed to fly too, really?" asked one of the members of the blue-ribbon technical advisory group hired to help. "Yes, really!" Dr. Wirenut snapped snippily.

Editor's note: I thank Joe Ventolo, K8DMZ, the editor and publisher of the GEARVAKf (the f is silent) Bulletin for allowing me use excerpts from the Bulletin in our newsletter.

Go to www.2cars.org to reserve and pay for your 2012 Dayton Hamvention Bus Trip



CARS is again sponsoring a Bus trip to the Dayton Hamvention, the 2012 bus trip will take place on Saturday May 19, 2012.

The Bus trip will cost \$45.00 dollars per person, the bus will be stopping for breakfast on the way down, with a brief stop on the way home for a quick bite. You are responsible for your food and Hamvention ticket costs.

Stop 1: The bus will leave promptly at 3:30 am from the Kmart parking lot at the intersection of Engle and Bagley Roads, in Middleburg Heights, Engle Road is a 1/4 mile west of I-71, Kmart is behind the Gas station. Vehicles will be safe, there will be security.

Stop 2: The bus will also pickup riders at I-71 & Rt 303 at the SE corner of the Kmart parking lot and will depart for Dayton at approximately 4:00 am. When ordering tickets please tell us which stop you will be at.

Bus tickets must be purchased and paid for in advance. The bus was sold out in 2010 so reserve your seats as early as possible.

If you have any questions please see Dwaine at a cars meeting, call 440-582-3462 or go to www.2cars.org and click on the Dayton Bus trip link to pay using PayPal. Checks can be mailed to: CARS, P.O. Box 31264, Independence, OH 44131-0264 attn. Dayton bus

73, Dwaine, K8ME and the Bus Committee

Cuyahoga Amateur Radio Society
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www.2cars.org



Purchase your 2012 CARS Scholarship fund Raffle Tickets Now!

Help support the CARS Scholarship fund by getting your Raffle Tickets ASAP.

Donation is only \$3.00 per ticket or 2 tickets for \$5.00! **

Anyone is welcome to purchase tickets, you can order your tickets on line using PayPal (PLEASE use the personal payment option), all you need is a credit card, go to www.2cars.org or contact the Treasurer Bob Check, W8GC 216-524-1750.

What can be more important than helping others get an education! CARS has awarded two \$500.00 Scholarships a year since 2006. This is a once a year Raffle.

This **drawing** will be held at the **CARS 2012 Summer picnic on July 27, 2012**. Winners do NOT need to attend to win. Winners will be notified plus be listed on the CARS web site and in our Newsletter the WO.



1st prize \$300.00

2nd prize \$200.00

3rd prize \$100.00

A maximum of 700 tickets will be sold

****All proceeds less actual expenses go
to the CARS Scholarship Fund.**